



Digi XBee Delivers Mission-Critical Wireless Mesh Performance Behind the World's Largest Drone Light Shows

06/17/26

HighGreat Technology sets a Guinness World Record orchestrating 8,100 drones with reliable, secure, and scalable Digi XBee and DigiMesh connectivity.

MINNEAPOLIS--(BUSINESS WIRE)--Jun. 17, 2026-- Digi International (NASDAQ: DGII, www.digi.com), a global leader in Internet of Things (IoT) connectivity solutions, has played a central role in powering record-breaking innovation across industries. With [over 25 million Digi XBee modules deployed globally](#), Digi's wireless technology is the trusted backbone for applications requiring secure, scalable, and ultra-reliable connectivity.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20260617086803/en/>



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[HighGreat Technology](#), a pioneer in large-scale aerial entertainment performances, relies on Digi XBee wireless modules with DigiMesh networking to synchronize thousands of LED-equipped drones featured at major civic, cultural,

brand, and entertainment events in more than 300 cities around the globe. The breathtaking choreography of thousands of airborne drones, each transmitting real-time kinematic (RTK) positioning data for centimeter-level accuracy, has earned HighGreat multiple Guinness World Records. Most recently, HighGreat showcased their capabilities at an event with a fleet performance of over 15,000 AI-controlled drones.

"Each of our shows requires hundreds or thousands of drones working in perfect harmony," said Wei Deng of HighGreat Technology. "Digi XBee delivered the low latency, reliability, and scalability we required to achieve complex formations without losing a single packet of data."

HighGreat Technology has built more than 100,000 drones using Digi XBee modules. This deployment demonstrates the scalability and reliability that organizations across industrial automation, agriculture, robotics, renewable energy, oil and gas, and other industries rely on for mission-critical wireless connectivity.

The drone shows also help replace traditional fireworks with safer, more sustainable "cold fireworks" or even hybrid performances, opening new creative possibilities turning night skies into a dynamic canvas for art, storytelling, and celebration.

Built for Reliable Performance at Scale

Behind the spectacle lies advanced network design built on the Digi XBee module with DigiMesh. In flight, drones are configured to conserve bandwidth and minimize latency. On the ground, multiple base stations serve as routing hubs, extending coverage and ensuring consistent data flow. The compact and universal form factor of the Digi XBee module supports drone miniaturization, while its exceptional radio performance and power management make it ideal for scenarios where multiple base stations serve thousands of drones over expansive venues.

"These drone swarms are wireless mesh networks in motion, synchronized with high precision using self-healing DigiMesh technology. This is the bar Digi XBee clears every day," said Mike Rohmoser, Vice President of Product Management, OEM Solutions at Digi International. "If it works at scale in the sky, it works on the ground and across industries. That's why customers trust Digi XBee as the wireless connectivity platform of choice for the most demanding applications."

The Digi XBee module family and the DigiMesh networking protocol are designed for applications where wireless connectivity is critical.

- **Built for reliability.** Low latency wireless performance with self-healing DigiMesh connectivity for reliable connectivity in demanding environments.
- **Secure by design.** Digi TrustFence, strong link encryption, and secure DigiMesh networking protect data transmissions.
- **Proven at scale.** With more than 25 million Digi XBee modules deployed globally, Digi XBee is production-hardened across every scale of deployment.

Digi XBee delivers mission-critical wireless connectivity across industries. [Explore the case study](#) and visit www.digi.com/xbee to learn more about the entire Digi XBee line of wireless solutions.

About Digi International

Digi International (NASDAQ: DGII) is a global technology leader empowering enterprises to build, connect, and manage the critical systems that drive their businesses. Through an integrated portfolio of managed services, intelligent software, secure connectivity, and resilient edge solutions, Digi helps enterprises monitor, update, and control assets in real time, strengthen compliance, streamline workflows, and keep distributed operations running

without interruption. Since 1985, Digi has enabled organizations worldwide to modernize operations and confidently connect millions of devices. Learn more at www.digi.com/.

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